

US 5831510 A	19981103	PTC electrical devices for installation on printed circuit boards	338/22R	Zhang, Michael et al.
US 5852397 A	19981222	Electrical devices	338/22R	Chan, Chi-Ming et al.
US 5864281 A	19990126	Electrical devices containing a conductive polymer element having a fractured surface	338/22R	Zhang, Michael et al.
US 4237441 A	19801202	Low resistivity PTC compositions	338/22R	van Konynenburg, Peter V. et
US 4304987 A	19811208	Electrical devices comprising conductive polymer compositions	219/553	van Konynenburg, Peter H.
US 4514620 A	19850430	Conductive polymers exhibiting PTC characteristics	219/553	Cheng, Tai C. et al.
US 4534889 A	19850813	Conductive polymer compositions and devices comprising them	252/511	van Konynenburg, Peter H. et
US 4545926 A	19851008	Conductive polymer compositions and devices	252/511	Fouts, Jr., Robert W. et al.
US 4724417 A	19880209	Electrical devices comprising cross-linked conductive polymers	338/22R	Au, Andrew N. et al.
US 4774024 A	19880927	Conductive polymer compositions	252/511	Deep, Marguerite E. et al.
US 4935156 A	19900619	Conductive polymer compositions	219/553	van Konynenburg, Peter H. et
US 5049850 A	19910917	Electrically conductive device having improved properties under electrical stress	338/22R	Evans, Joseph H.
US 5378407 A	19950103	Conductive polymer composition	252/513	Chandler, Daniel et al.
US 5451919 A	19950919	Electrical device comprising a conductive polymer composition	338/22R	Chu, Edward F. et al.
US 5582770 A	19961210	Conductive polymer composition	252/511	Chu, Edward F. et al.
US 5747147 A	19980505	Conductive polymer composition and device	428/209	Wartenberg, Mark F. et al.
US 5801612 A	19980901	Electrical device	338/22R	Chandler, Daniel A. et al.
US 6358438 B1	20020319	Electrically conductive polymer composition	252/511	Isozaki, Tsutomu et al.
US 6570483 B1	20030527	Electrically resistive PTC devices containing conductive polymers	338/22R	Chandler, Daniel A. et al.
US 4800253 A	19890124	Electrical devices containing conductive polymers	219/553	Kleiner, Lothar et al.
US 6429533 B1	20020806	Conductive polymer device and method of manufacturing same	257/783	Li, Wen Been et al.
US 6380839 B2	20020430	Surface mount conductive polymer device	338/22R	Li, Lawrence et al.
US 6242997 B1	20010605	Conductive polymer device and method of manufacturing same	338/22R	Barrett, Andrew Brian et al.
US 6236302 B1	20010522	Multilayer conductive polymer device and method of manufacturing same	338/22R	Barrett, Andrew Brian et al.
US 6172591 B1	20010109	Multilayer conductive polymer device and method of manufacturing same	338/22R	Barrett, Andrew Brian
US 4593181 A	19860603	Heating element having deformed buss bars	219/541	Jensen, Michael L. et al.
US 6300859 B1	20011009	Circuit protection devices	337/182	Myong, Inho et al.
US 6223423 B1	20010501	Multilayer conductive polymer positive temperature coefficient device	29/621	Hogge, Steven Darryl
US 6211771 B1	20010403	Electrical device	338/22R	Zhang, Michael et al.
US 6124781 A	20000926	Conductive polymer PTC battery protection device and method of making same	338/22R	Hogge, Steven D. et al.
US 6023403 A	20000208	Surface mountable electrical device comprising a PTC and fusible element	361/106	McGuire, Katherine M. et al.
US 6020808 A	20000201	Multilayer conductive polymer positive temperature coefficient device	338/22R	Hogge, Steven Darryl
US 5907272 A	19990525	Surface mountable electrical device comprising a PTC element and a fusible link	338/22R	McGuire, Katherine M.
US 5166658 A	19921124	Electrical device comprising conductive polymers	338/23	Fang, Shou-Mean et al.
US 4967176 A	19901030	Assemblies of PTC circuit protection devices	338/22R	Horsma, David A. et al.
US 6157289 A	20001205	PTC thermistor	338/22R	Kojima, Junji et al.

US 5818676 A	19981006	Multiple element PTC overcurrent protection device	361/106	Gronowicz, Jr., William
US 5763929 A	19980609	Transistor package having a series connected thermistor for protection from thermal destruction	257/467	Iwata, Hitoshi
US 6331763 B1	20011218	Devices and methods for protection of rechargeable elements	320/136	Thomas, Brian et al.
US 6143440 A	20001107	Protective device for a repeatedly rechargeable electrochemical battery	429/92	Volz, Andreas et al.
US 5943764 A	19990831	Method of manufacturing a surface-mounted fuse device	29/623	Blecha, Vladimir et al.
US 6392528 B1	20020521	Circuit protection devices	338/22R	Myong, Inho
US 6172590 B1	20010109	Over-voltage protection device and method for making same	338/20	Shrier, Karen P. et al.
US 5852326 A	19981222	Face-up semiconductor chip assembly	257/692	Khandros, Igor Y. et al.
US 6092269 A	20000725	High energy density capacitor	29/25.42	Yializis, Angelo et al.
US 6018448 A	20000125	Paired multi-layered dielectric independent passive component architecture resulting in difference	361/56	Anthony, Anthony A.
US 5103293 A	19920407	Electronic circuit packages with tear resistant organic cores	257/702	Bonafino, Edward J. et al.
US 4780598 A	19881025	Composite circuit protection devices	219/511	Fahey, Timothy E. et al.
US 5089801 A	19920218	Self-regulating PTC devices having shaped laminar conductive terminals	338/22R	Chan, Chi-Ming et al.
US 6465893 B1	20021015	Stacked chip assembly	257/777	Khandros, Igor Y. et al.

L Number	Hits	Search Text	DB	Time stamp
18	2136	(ptc polymeric) and (conductive insulating) nearl polymer and device and component and (subdivi\$3 divi\$3 cut\$4 sever\$4)	USPAT; EPO; JPO	2003/09/03 14:59
19	178	((ptc polymeric) and (conductive insulating) nearl polymer and device and component and (subdivi\$3 divi\$3 cut\$4 sever\$4)) and 338/\$.ccls.	USPAT; EPO; JPO	2003/09/03 14:52
21	160	((ptc polymeric) and (conductive insulating) nearl polymer and device and component and (subdivi\$3 divi\$3 cut\$4 sever\$4)) and 29/\$.ccls.	USPAT; EPO; JPO	2003/09/03 14:54
22	118	(ptc polymeric) and conductive adj polymer and insulating adjl polymer and device and component and (subdivi\$3 divi\$3 cut\$4 sever\$4)	USPAT; EPO; JPO	2003/09/03 15:13
23	50	(ptc polymeric) and conductive adj polymer and insulating adjl polymer and laminat\$3 and component and (subdivi\$3 divi\$3 cut\$4 sever\$4)	USPAT; EPO; JPO	2003/09/03 15:39
24	12	circuit adj protection and (ptc and polymeric) and laminat\$3 and conductive and stack\$3	USPAT; EPO; JPO	2003/09/03 15:34
41	3	circuit adj protection and (ptc polymeric) and laminat\$3 and conductive and insulat\$3 adjl polymer\$2 and stack\$3	USPAT; EPO; JPO	2003/09/03 15:36
42	11	circuit adj protection and (ptc polymeric) and laminat\$3 and conductive adjl polymer\$2 and stack\$3 and insulat\$3	USPAT; EPO; JPO	2003/09/03 15:37
44	15	(ptc polymeric) and conductive adj polymer and insulating adjl polymer and laminat\$3 and stack\$3 and (subdivi\$3 divi\$3 cut\$4 sever\$4)	USPAT; EPO; JPO	2003/09/03 15:43
45	1	("4959505").PN.	USPAT	2003/09/03 15:55
-	1	("5831510").PN.	USPAT	2003/08/06 15:51
-	1	("5852397").PN.	USPAT	2003/08/06 15:53
-	1	("5864281").PN.	USPAT	2003/08/06 15:56
-	1	("4237441").PN.	USPAT	2003/08/06 15:56
-	1	("4304987").PN.	USPAT	2003/08/06 15:57
-	1	("4514620").PN.	USPAT	2003/08/06 15:57
-	1	("4534889").PN.	USPAT	2003/08/06 15:57
-	1	("4545926").PN.	USPAT	2003/08/06 15:57
-	1	("4724417").PN.	USPAT	2003/08/06 15:58
-	1	("4774024").PN.	USPAT	2003/08/06 15:59
-	1	("4935156").PN.	USPAT	2003/09/03 15:55
-	1	("5049850").PN.	USPAT	2003/08/06 15:59
-	1	("5378407").PN.	USPAT	2003/08/06 15:59
-	1	("5451919").PN.	USPAT	2003/08/06 16:00
-	1	("5582770").PN.	USPAT	2003/08/06 16:00
-	1	("5747147").PN.	USPAT	2003/08/06 16:00
-	1	("5801612").PN.	USPAT	2003/08/06 16:02

-	1	("6358438").PN.	USPAT	2003/08/06 16:03
-	1	("6570483").PN.	USPAT	2003/08/06 16:06
-	1	("4689475").PN.	USPAT	2003/08/06 16:06
-	1	("4800253").PN.	USPAT	2003/08/06 16:08
-	1	("6331763").PN.	USPAT	2003/08/06 16:09
-	75	polymeric and laminar and external with electrode	USPAT; EPO; JPO	2003/08/06 16:28
-	184	polymeric and laminar and external and conductive with surface and electrode	USPAT; EPO; JPO	2003/08/06 16:29
-	134	(polymeric and laminar and external and conductive with surface and electrode) and (subdivid\$3 cut\$4 dic\$3)	USPAT; EPO; JPO	2003/08/06 16:31
-	9	("3775725" "4486737" "4486738" "4689475" "4777718" "4924074" "4977309" "5216404" "5347258").PN.	USPAT	2003/08/06 16:37
-	38	composite adj1 polymeric and laminat\$3 and surface and electrode and connect\$3 and (divid\$3 subdivid\$3 cut\$4 sever\$4)	USPAT; US-PGPUB	2003/08/06 18:41
-	131	ptc and polymeric and laminat\$3 and surface and electrode and connect\$3 and (divid\$3 subdivid\$3 cut\$4 sever\$4)	USPAT; EPO; JPO	2003/08/06 18:43
-	1	"6157289".PN.	USPAT	2003/08/06 18:44
-	488	ptc and polymeric and device and component and (subdivid\$3 divid\$3 cut\$4 sever\$4)	USPAT; EPO; JPO	2003/09/03 14:39
-	87	(ptc and polymeric and device and component and (subdivid\$3 divid\$3 cut\$4 sever\$4)) and electrical with (mount\$3 attach\$3)	USPAT; EPO; JPO	2003/08/07 11:06
-	15	ptc and polymeric and device and component with electrical with (mount\$3 attach\$3)and (subdivid\$3 divid\$3 cut\$4 sever\$4)	USPAT; EPO; JPO	2003/08/07 14:13
-	1	6518731.pn.	USPAT; EPO; JPO	2003/08/07 17:58
-	1	"6331763".PN.	USPAT	2003/08/07 13:49
-	11	("4509102" "5150271" "5177426" "5363030" "5539299" "5602460" "5625273" "5710505" "5763929" "5783322" "5789900").PN.	USPAT	2003/08/07 13:49
-	1	"6331763".PN.	USPAT	2003/08/07 13:51
-	11	("4509102" "5150271" "5177426" "5363030" "5539299" "5602460" "5625273" "5710505" "5763929" "5783322" "5789900").PN.	USPAT	2003/08/07 14:10
-	8	5789900.URPN.	USPAT	2003/08/07 14:11
-	13	5783322.URPN.	USPAT	2003/08/07 14:12
-	111	29/623,602.1,830,846,609,412,417,854.ccls. and circuit with protection	USPAT; EPO; JPO	2003/08/07 14:15
-	15	(29/623,602.1,830,846,609,412,417,854.ccls. and circuit with protection) and	USPAT; EPO; JPO	2003/08/07 17:54
-	272	polymeric) and pattern and laminat\$3 and electrical with (component device chip) with (attach\$3 mount\$3) and (dicing cut\$4 divid\$3 subdivid\$3 severring)	USPAT; EPO; JPO	2003/08/07 17:59
-	257	((ptc polymeric) and pattern and laminat\$3 and electrical with (component device chip) with (attach\$3 mount\$3) and (dicing cut\$4 divid\$3 subdivid\$3 severring)) and connect\$3	USPAT; EPO; JPO	2003/08/07 18:00

-	2452	(polymer\$2 with composite ptc) and component and protect\$3 and (cut\$4 divid\$3 separat\$3) and connect\$3 and pattern\$3	USPAT; EPO; JPO	2003/09/02 15:18
-	90	((polymer\$2 with composite ptc) and component and protect\$3 and (cut\$4 divid\$3 separat\$3) and connect\$3 and pattern\$3) and 29/\$.ccls.	USPAT; EPO; JPO	2003/09/02 15:24
-	0	((polymer\$2 with composite ptc) and component and protect\$3 and (cut\$4 divid\$3 separat\$3) and connect\$3 and pattern\$3) and 200/\$.ccls.	USPAT; EPO; JPO	2003/09/02 15:24
-	13	((polymer\$2 with composite ptc) and component and protect\$3 and (cut\$4 divid\$3 separat\$3) and connect\$3 and pattern\$3) and 320/\$.ccls.	USPAT; EPO; JPO	2003/09/02 15:27
-	11	("4509102" "5150271" "5177426" "5363030" "5539299" "5602460" "5625273" "5710505" "5763929" "5783322" "5789900").PN.	USPAT	2003/09/02 15:27
-	84	((polymer\$2 with composite ptc) and component and protect\$3 and (cut\$4 divid\$3 separat\$3) and connect\$3 and pattern\$3) and 361/\$.ccls.	USPAT; EPO; JPO	2003/09/02 15:50
-	66	((polymer\$2 with composite ptc) and component and protect\$3 and (cut\$4 divid\$3 separat\$3) and connect\$3 and pattern\$3) and 338/\$.ccls.	USPAT; EPO; JPO	2003/09/02 15:57
-	211	((polymer\$2 with composite ptc) and component and protect\$3 and (cut\$4 divid\$3 separat\$3) and connect\$3 and pattern\$3) and 257/\$.ccls.	USPAT; EPO; JPO	2003/09/02 15:57
-	53	4780598.URPN.	USPAT	2003/09/02 17:45
-	9	5763929.URPN.	USPAT	2003/09/02 18:53
-	6	("3444399" "3708720" "3809928" "4117508" "4937696" "5227946").PN.	USPAT	2003/09/02 18:53
-	39	4967176.URPN.	USPAT	2003/09/02 19:00